

FIG.2

BS NO.	RESOURCE-1		RESOURCE-2		...	RESOURCE-N	
1	UP LINK IN USE	PRIORITY HIGH	NOT IN USE	-	...	DN LINK IN USE	PRIORITY LOW
2	NOT IN USE	-	NOT IN USE	-	...	NOT IN USE	-
3	DN LINK IN USE	PRIORITY HIGH	DN LINK IN USE	PRIORITY HIGH	...	NOT IN USE	-
...
M	DN LINK IN USE	PRIORITY HIGH	NOT IN USE	-		UP LINK IN USE	PRIORITY HIGH

FIG. 2

The diagram illustrates a radio communication system 20. It features a circulator 90 at the center, which directs signals between an antenna and two filters: a receiving filter 91 and a transmitting filter 99. The receiving path starts with signals from mobile stations entering the antenna, passing through the receiving filter 91 to a demodulator unit 92. The demodulator unit 92 is connected to a resource allocation control unit 95 and a decoder unit 93. The resource allocation control unit 95 also receives signals from an up/down frequency control unit 97 and a message control unit 98. The up/down frequency control unit 97 is connected to the receiving filter 91, the transmitting filter 99, and the resource allocation control unit 95. The transmitting path begins at a modulator unit 100, which receives signals from the up/down frequency control unit 97 and the message control unit 98. The modulator unit 100 is connected to the transmitting filter 99, which then passes signals through the circulator 90 to the antenna. The antenna also handles signals to and from mobile stations. Additionally, the resource allocation control unit 95 is connected to an encoder unit 102, which outputs downlink data. The decoder unit 93 outputs uplink data. The message control unit 98 is connected to both the resource allocation control unit 95 and the encoder unit 102.

FIG.4

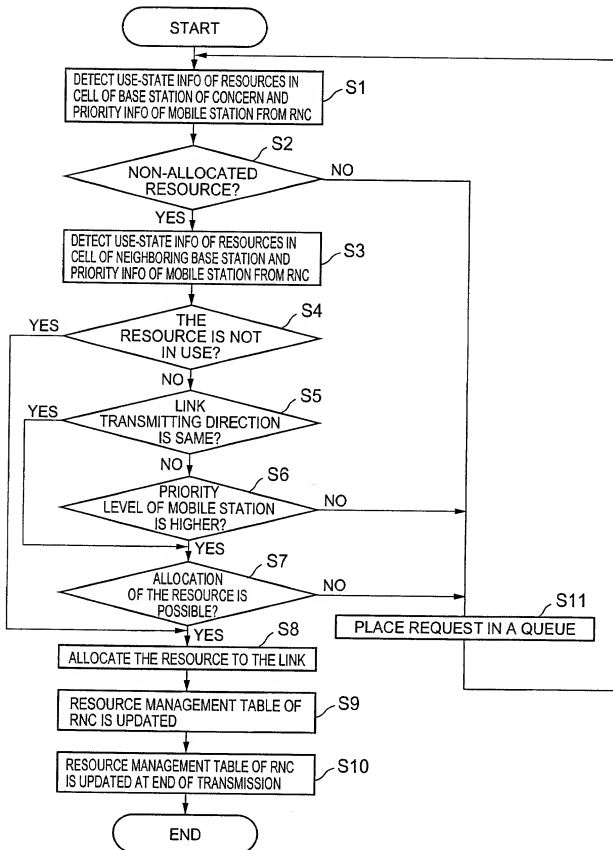


FIG. 5

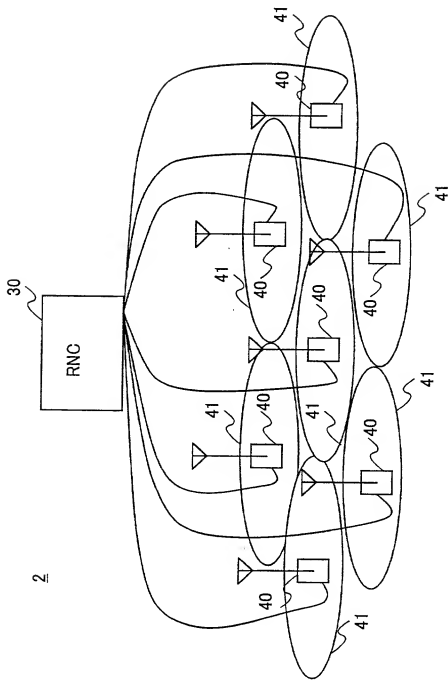


FIG.6

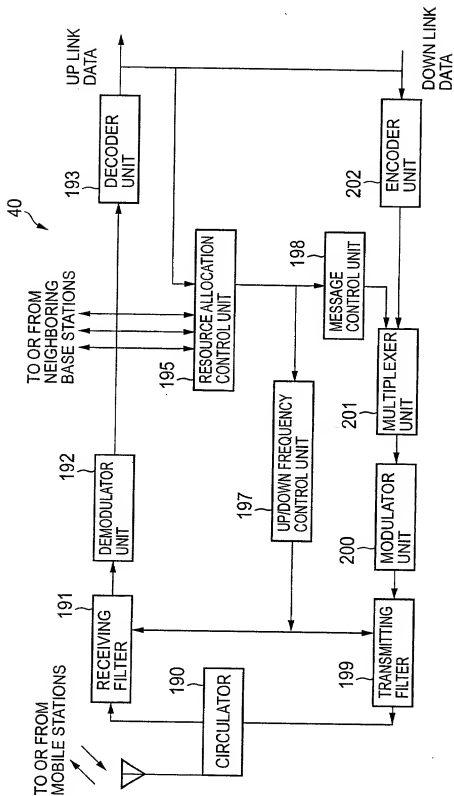


FIG.7

